Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Delta Power Intake/Blowdown Tunnel
Delta, PA



PROJECT OVERVIEW AND CHALLENGES

The Delta Power Plant project in Delta, PA, consisted of a 565 MW power generating facility that recovers heat from gas exhaust leaving gas turbines. The turbines burn either natural gas or low sulfur diesel fuel oil. A microtunnel solution to installing the cooling water intake and return was developed by the owner, contractor, and tunnel subcontractor. 1,515' of 60" steel casing was jacked under a lake and a 16" HDPE pipe was installed inside. The HDPE pipe transports cooling water to the plant and the annular space between the carrier pipe and the casing returns the water to the lake. The TBM was recovered from under Conowingo Lake along the Susquehanna River.





PROJECT INFORMATION - 493

OWNER:
Calpine Corporation
Alan Bryce
610.667.4773

ENGINEER:
ALTRAN Solutions
617-204-1000

CONTRACTOR:
CH Schwertner & Sons, Inc.

COMPLETION DATE:
6/30/2010

GEOLOGY:
Soft Silt, Gravel, Cobbles, Debris

EXCAVATION METHOD:
Herrenknecht AVN-1200 MTBM

MINING DIMENSIONS:
1,515' x 60" Ø

FINAL LINING:
16"High-Density Polyethylene Pipe

FOR MORE INFORMATION:
Eric Eisold, Vice President
410.970.8300
eeisold@bradshawcc.com
Refer to Project 493